

University of New Mexico

Luxel Radiation Badge - Instructions for Use

- Your badge measures occupational whole body radiation exposure. You must wear your badge each day while working in radiation areas, & leave in a radiation-free area when not working.
- The proper way to wear the badge is clipped in its holder and placed in the neck, collar, or chest area, with the front label facing the radiation source. Never dangle the badge from a lanyard.
- Wear only the badge with your name on it. Never borrow or loan a badge.
- The Luxel element is exchanged monthly or quarterly. On or about the last working day of the cycle, return the used element to your supervisor and replace it with the one for the new month or quarter.
- Take care to not contaminate your badge with radioactive material (RAM). If you suspect your badge has become contaminated, notify your supervisor & the Radiation Safety Officer (RSO).
- Do not remove your badge from the workplace. Extremes in temperature and pressure as well as moisture and other environmental conditions can adversely affect it. If the badge is clipped to scrubs, make sure you remove it before the scrubs are placed in the laundry.
- Never wear your badge while receiving personal medical exams involving radiation, such as dental x-rays, chest x-rays, Nuclear Cardiology stress test etc.
- Review your radiation exposure data regularly to ensure it is ALARA: **As Low As Reasonably Achievable**. Dosimetry reports are available approximately 2-3 weeks following exchange.
- If you are a new employee and was badged by your former employer, you must provide the current calendar year radiation exposure you received to the RSO. If you have a 2nd current job at which you are badged, that data must also be provided to the RSO on a quarterly basis.
- If you become pregnant, specific regulations apply, and a fetal radiation monitor may be issued. Contact your RSO.
- If you are issued a ring badge, wear it on the dominant hand with the label part facing the palm.
- For questions about Radiation Safety, contact your RSO at (505) 272-5500

Dose Limits and ALARA Levels:

| Location | Annual Dose Limit (mrem) | ALARA Level I (mrem/quarter) | ALARA Level II (mrem/quarter) |
|-------------------|--------------------------------------|---|--|
| Whole Body | 5000 | 300 | 600 |
| Lens of Eye | 15,000 | 1800 | - |
| Extremity or Skin | 50,000 | 6000 | - |
| Embryo/fetus | 500 (for gestation) | 50 mrem per month | |

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Landauer Luxel Badge



Information on the front of the dosimeter:

Wearer's name

Location/Department

Account name

The little silhouette on the left shows where the badge should be worn. See examples below.

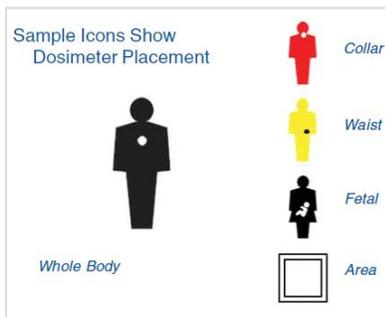


Information on the back of the dosimeter:

Location Code, three letters underlined in yellow here

Wearer's Participant Number, 5 digits, underlined in red here.

Dosimeter SN number, each dosimeter has its own serial number. Underlined in blue here.



Badge placement diagrams:

There is a little diagram on each badge showing you where to wear it.

